

#21.

Hawaiian Explorations.

DE 4162 - 4173.

HY 4657 - 4693.

August 7<sup>th</sup> - 14<sup>th</sup>, 1902.

Thermometer 98237.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Stairway*  
 No. *4657* Date *7 Aug. 02.*  
*Sigsbee* Machine. Reel.  
 Turns *166* Cor. *+ 36* Depth *183 fms*  
 Shot or lead  
 Bottom *fine. co. s. g.*  
 Bottom temperature  
 No. of thermometer *98238* Cor. *-0.3*  
 Corrected temperature *55.3*  
 Air *81* Surface *78* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.20.50</i>	<i>24.50</i>	0		
<i>21.50</i>	<i>23.50</i>	<i>100</i>		
<i>22.20</i>	<i>23.00</i>	<i>166</i>		
		<del>200</del>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Buoy 80. 575° E, 6.2'

SL  
STOB  
1/2

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

166  
17  
183

4310

205

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*507*  
*Stair*  
 No. 4658 *Hy* Date 7 Aug. '02  
*Sigsbee* Machine. 1 Reel. *Rowy*  
 Turns 51 Cor. + 5 Depth 56 fms  
 Shot or lead 36 #  
 Bottom *lv. S. & G.*  
 Bottom temperature 70.5  
 No. of thermometer 98236 Cor. -0.1  
 Corrected temperature 74.9°  
 Air 87 Surface 78 Drift  
 Trawl or dredge *25 fms*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10:44.15	45.50	51°	10:45.00	
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Bridge - N 87° 30' E, 13.2'

OK  
H. H. H.

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

4310 200

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Station*  
 No. *11659* *Hy.* Date *Aug. 10 02.*  
*Sigsbee* Machine. Reel. *Tracy*  
 Turns *20* Cor. + *2* Depth *22 fms.*  
 Shot or lead *36 lb*  
 Bottom *Co.*  
 Bottom temperature *did not trip*  
 No. of thermometer *98236* Cor. *—*  
 Corrected temperature  
 Air *81* Surface *78* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.10.00</i>	<i>11.10.50</i>	<i>20</i>		
		<del>100</del>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Center of Buoy, N 83° E, 15.2'

81C  
HUB.  
in

4310 205

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

501. *Fairway*  
 No. *4660* Date *7 Aug '02*  
*Sigsbee* Machine. *1* Reel. *Heavy*  
 Turns *20* Cor. *+ 3 1/2* Depth *22 fms*  
~~Shot or lead~~  
 Bottom *bn. Co. s*  
 Bottom temperature *121st trip.*  
 No. of thermometer *98236* Cor.  
 Corrected temperature  
 Air *81* Surface *78* Drift

~~Trawl or dredge~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.34.10</i>	<i>11.35.10</i>	<i>20</i>		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Base 3' N 83° 30' E, 17.2'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy. 4661.* Date *7 Aug. '02.**Reel.* Machine. / Reel.Turns *18* Cor. + *2* Depth *20 fms.*Shot or lead *36 Lbs.*Bottom *Co. Corin.*Bottom temperature *78° -*No. of thermometer *98255.* Cor. *-0.1*Corrected temperature *77.9°*Air *82° -* Surface *78° -* Drift~~Trawl or dredge~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.58. -</i>		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Board Id.

N 84° E, 18.6'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507  
 April 11

11.55 - P.L. = 24.6

No. *H.Y. 4662.* Date *7 Aug. 02.*

*Sigsbee* Machine. / Reel. *Wey.*

Turns *45* Cor. + *4* Depth *49*

Shot or lead *36 Lbs.*

Bottom *crs br S. Fov.*

Bottom temperature *72.5°*

No. of thermometer *98236.* Cor. *-0.1*

Corrected temperature *72.4°*

Air *82° -* Surface *78° -* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12.22. -</i>		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Buoy, N 87° 45' E, 20.3'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

4511

S. N. -

P.L. = 38.6

No. *H. 4662* Date *Aug 02*

*Cinch* Machine. / Reel. *Reef*

Turns *58* Cor. + *6* Depth *64* fms.

Shot or lead *36 Lbs.*

Bottom *cr lo S. F.*

Bottom temperature *71.2°*

No. of thermometer *98236* Cor. *-0.2*

Corrected temperature *71.0°*

Air *80°* Surface *77°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1.06.10</i>		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Center of Mass

N 82° 45' E, 23.8'

5-16  
1000

18  
6  
-6.6

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4664 Date 7 Aug. '02.

Machine. / Reel. 7200.

Turns 249 Cor. + 25 Depth 274 fms.

Shot or lead 36 Lbs.

Bottom fm. Co. S.

Bottom temperature 45.3°

No. of thermometer 98236. Cor. -0.2

Corrected temperature 45.1°

Air 80° - Surface 77° - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1. 50.00	1. 55.55	0		
51. -	54.55	100		
51.50	53.45	200		
1. 52.10	1. 53.10	249		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Bottom of Main St. N 75° E, 24.4'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
1210	205	3300	
		3400	
248		3500	
25		3600	
5-6		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2.5. - 46.6

1007.

No. *H. 4665* Date *7 Aug. 03.*  
*Sigsbee* Machine. / Reel. *Navy.*  
 Turns *986* Cor. + *85* Depth *1071 fms.*  
 Shot or lead *36 lb.*  
 Bottom *fm. G. S.*  
 Bottom temperature *36.2*  
 No. of thermometer *98326* Cor. *-0*  
 Corrected temperature *36.2°*  
 Air *80. -°* Surface *77. -°* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2. 10.20</i>	<i>3. 01.25</i>	0		
<i>11 30</i>	<i>3. 00.25</i>	100		
<i>12.10</i>	<i>29.30</i>	200		
<i>13 10</i>	<i>28.30</i>	300		
<i>14. -</i>	<i>27.35</i>	400		
<i>15. -</i>	<i>26.30</i>	500		
<i>16. -</i>	<i>25.35</i>	600		
<i>17. -</i>	<i>24.30</i>	700		
<i>18. -</i>	<i>23.10</i>	800		
<i>49 10</i>	<i>22.15</i>	900		
<i>2. 50.10</i>	<i>2. 51.10</i>	<i>986</i> <del>1000</del>		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Current of ...

N 66° E, 24.2'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
11210	205	3300	
986	120	3400	
<u>3324</u>	<u>45</u>	3500	
	086	3600	
	<u>1341</u>	3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy. 4666.* Date *7 Aug. '02.*  
*Lucas* Machine. Reel. *No. 1.*  
 Turns *726* Cor. + *64* Depth *790 fms.*  
 Shot or lead *36 Lbs.*  
 Bottom *fm. Co. S. For.*  
 Bottom temperature *39.5°*  
 No. of thermometer *98236.* Cor. *-0*  
 Corrected temperature *39.5*  
 Air *80.0°* Surface *77.0°* Drift  
 Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

<i>3. 29. 15</i>	<i>3. 41. 10</i>	0		
<i>30. -</i>	<i>42. 40</i>	100		
<i>30. 45</i>	<i>42. 40</i>	200		
<i>31. 40</i>	<i>41. 20</i>	300		
<i>32. 35</i>	<i>40. 30</i>	400		
<i>33. 30</i>	<i>39. 15</i>	500		
<i>34. 30</i>	<i>38. 20</i>	600		
<i>35. 30</i>	<i>37. -</i>	700		
<i>2. 35. 45</i>		<i>726</i>		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lat. of station. N 63° 45' E, 21.5'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

4310  
- 26  
4284

205  
141  
64  
726  
90

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2059 50.6  
E X N

No. 4667 Date Aug 7 1902

Machine #1 Reel.

Turns 652 Cor. + 58 Depth 710 fms

Shot or lead 36 lbs

Bottom

Bottom temperature 38°

No. of thermometer 75236 Cor. 0

Corrected temperature 38.0

Air 81 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

4-11.00	26.25	0		
12.05	25.20	100		
13.10	24.15	200		
14.15	23.15	300		
15.30	22.20	400		
16.45	21.20	500		
17.55	20.20	600		
18.30	19.40	700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



N 61° E, 20.9'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
4810	200	3400	
652	148	3500	
3658	58	3600	
	652	3700	
	710	3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Pat. Log 52.6  
E x A.

No. 4668 Date Aug. 7, 1902.

Machine. #1 Reel. King.

Turns 359 Cor. + 35 Depth 394 fms

Shot or lead 36 lbs

Bottom fm. S. S.

Bottom temperature 52.0

No. of thermometer 78236 Cor. - 0.2

Corrected temperature 41.8°

Air 81 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

4.52.15 01.10  
53.20 57.00.05  
54.30 57.10  
55.40 58.05  
56.25 57.25

0

100

200

300

37  
400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

N 58° 30' E, 19.2'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
1310	205	3400	
359	170	3500	
<hr/>		3600	
3751	35	3700	
	359	3800	
<hr/>		3900	
	394	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4669 Date Aug 7, 1902

Machine #1 Reel. 57.

Turns 2 Cor. + Depth 43

Shot or lead 36 lbs

Bottom 10.10. 61-9

Bottom temperature 42.1

No. of thermometer 7526 Cor. 0.5

Corrected temperature 41.9°

Air 84 Surface 77 Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

5-26.50	32.10	0		
27.00	32.00	100		
28.10	31.50	200		
29.00	31.40	300		
5-29.50	31.30	342		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

73 15 14 21

N 55° 15' E, 17.6'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

242  
396  
17  
50  
242  
370

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 460 Date

Machine.

Reel.

Turns 643 Cor. +

Depth 701 fms

Shot or lead 26

Bottom br. S.

Bottom temperature

No. of thermometer 7280

Cor. - 0

Corrected temperature 38.0

Air 82

Surface 77

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

N 51° 15' E, 16.0'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *4691* Date *Aug. 02*  
*Sigsbee* Machine. *17* Reel. *174*

Turns *20* Cor. + *7* Depth *27*

Shot or lead *35*

Bottom *Co. S.*

Bottom temperature *75.2*

No. of thermometer *98236* Cor. *-0.1*

Corrected temperature *74.9*

Air *82* Surface *77* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6:17.30</i>	<i>6:21.30</i>	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Center of Bird 90 - N 590 E, 15.9:

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4310 20V

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 11671

Date Aug 02

Machine.

Reel.

Turns 30 Cor. +

Depth 33

Shot or lead

Bottom G. S.

Bottom temperature

No. of thermometer 9756

Cor. - 0.1

Corrected temperature

Air 79°

Surface 77°

Drift

Trawl or dredge.

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Center of Buoy, N 57° E, 16.4

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

616  
1100  
14310 205

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000.				

REMARKS:

No.

4673 Hy

Date

Machine.

Reel.

Name

Turns

31

Cor. +

3

Depth

38 fms.

Shot or lead

36

Bottom

no specimen - hard.

Bottom temperature

No. of thermometer

95236

Cor.

Corrected temperature

Air

79°

Surface

77°

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

7.21.00

7.25.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

[illegible]

P. L. = 65.6

No.

Date

Aug. '02.

Rigbee Machine. / Reel.

Turns

Cor. +

2

Depth

23 fms.

Shot or lead 36 Lbs

Bottom

Co. Crln.

Bottom temperature

74.°

No. of thermometer

78222

Cor. +2.1

Corrected temperature

74.1°

Air

79°

Surface

77°

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

8.13-

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Center of Buoy, N 66° 30' E, 15.0

	2500	
	2600	
OK	2700	
5000	2800	
2000	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 66-6

No. *111*

Date

*Aug. 12.*

Machine.

Reel.

Turns *20* Cor. + *2*

Depth *22 fms.*

Shot or lead *36 Lbs.*

Bottom *E. S.*

Bottom temperature *78.*

No. of thermometer

*8539.*

Cor. + *0.1*

Corrected temperature *78.1*

Air

*79.*

Surface

*79.*

Drift

Trawl or dredge.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8.25.15</i>		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Center of Buoy 88, N 68° E, 16.0'

O/K  
 1000  
 8

2500  
 2600  
 2700  
 2800  
 2900  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

P.L. 556

No. *Hy. 4676.* Date *7 Aug. 02*

*Sigsbee* Machine. 1 Reel. *Navy*

Turns *20* Cor. + *2* Depth *22 fms.*

Shot or lead *36 lbs.*

Bottom *C*

Bottom temperature

No. of thermometer *None* Cor.

Corrected temperature

Air *79°* Surface *77°* Drift

~~Trawl or dredge~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>S. 44. -</i>		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Buoy Id, N 69° E, 17.0'

OK

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *211* Date *7 Aug. 1881*  
*Sigsbee* Machine / Reel. *Hand*  
 Turns *20* Cor. + *2* Depth *22 fms.*  
 Shot or lead *36 Lbs.*  
 Bottom *co S bk Sh. For.*  
 Bottom temperature }  
 No. of thermometer } *None* Cor.  
 Corrected temperature }  
 Air *78°* Surface *77°* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8.58.40</i>		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Buoy N 70° E, 18.0'

OK  
F. J. G.

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy 4578*. Date *7 Dec. '02*.*Sigsbee* Machine. / Reel. *7111*.Turns *22* Cor. + *2* Depth *24 fms.*Shot or lead *36 lbs.*Bottom *co S fm*

Bottom temperature

No. of thermometer *7100*. Cor.

Corrected temperature

Air *78°* Surface *77°* Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*9.12.25*

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Center of Bird Is., N 71° E, 19.0'

OK  
F.O.  
/

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *4679*. Date *7 Aug. '02*.*Sigsbee* Machine. Reel. *2*.Turns *22* Cor. + *2* Depth *24 fms.*~~Shot or lead~~ *36 Lbs.*Bottom *C<sub>o</sub>*

Bottom temperature

No. of thermometer *(None)* Cor.

Corrected temperature

Air *78°* Surface *75°* Drift~~Trawl or dredge~~

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*Q. 26.-*

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



Center of Bu. a. D., 1872-8, 20.0'

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *Hy. 4680.* Date *7 Aug. '02.*Machine. / Reel. *7*Turns *22* Cor. + *2* Depth *24 fms.*Shot or lead *36*Bottom *Co*

Bottom temperature

No. of thermometer } *None* Cor.

Corrected temperature

Air *78°* Surface *77°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.38.30</i>		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Bred. Id., N 73° E, 21.0'

OK  
21000  
1/1

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel

Turns 22 Cor. + 2

Depth 24 fms.

Shot or lead 36 Lbs.

Bottom co S Fr

Bottom temperature

No. of thermometer } None. Cor.

Corrected temperature

Air 78° Surface 77° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.55.20		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Buoy No. 11730 45' E, 21.8'

OK  
11730  
5/1

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *44*

Date *Aug. 21*

*Sigsbee* Machine.

Reel.

Turns *25* Cor. + *2*

Depth *27 fms.*

Shot or lead *36* Lbs.

Bottom *C. C. S. For*

Bottom temperature

No. of thermometer *4*

Cor.

Corrected temperature

Air *78°* Surface *77°* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*10.09.-*

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400

Center of Buoy Id. N 74° 15' E, 22.15'

OK  
1100

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Rel. = 746*

No. *Hy. 4683* Date *Aug. 20*  
*Sigsbee* Machine. Reel. *Heavy*  
 Turns *19* Cor. + *2* Depth *21 fms.*  
 Shot or lead *36 Lbs.*  
 Bottom *C*

Bottom temperature  
 No. of thermometer *8827* Cor.  
 Corrected temperature  
 Air *78°* Surface *77°* Drift  
 Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*10.30*

*Handwritten notes and scribbles in the left column of the table.*

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400



2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 4162 157 Date 1/1/1881

Hand Machine. — Reel. —

Turns — Cor. + —

Depth 21 fms

~~Shot or lead~~

Hand

Bottom Co.

Bottom temperature

No. of thermometer

Corrected temperature

Air 76

Surface 77

Drift

~~Trawl or dredge~~

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5-57-

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

6.01.50 6.21.30

Center of Buoy  $N 75^{\circ} E, 21.3'$

OK  
7-9

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Landed in 21 fms at 10 <sup>25</sup> pm  
Aug 7<sup>th</sup>, & anchored. This  
dredging station commenced at  
10:45 pm.

No. 4163 Date

Machine. Reel.

Turns 23 Cor. + 1

Depth 20 fms

Shot or lead

Bottom Co.

Bottom temperature

No. of thermometer

Cor. 10.1

Corrected temperature

Air 73

Surface 77

Drift

2.0'

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Center of Bu'd Id., N 79° 30' E, 20.0'

C. L.  
500.  
1/1

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

370

507

No.

Date

Machine

Reel

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

- 0
- 100
- 200
- 300
- 400
- 500
- 600
- 700
- 800
- 900
- 1000
- 1100
- 1200
- 1300
- 1400
- 1500
- 1600
- 1700
- 1800
- 1900
- 2000
- 2100
- 2200
- 2300
- 2400

6.5.30 5.00  
 7.03.30 1.22.10  
 2074

Center of Bird Is., N 84° E, 18.5'

OK  
JTB

11  
3  
11

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

453

Date

Aug 22

Machine.

Reel.

Turns

54

Cor. +

2

Depth

56

~~Shot or lead~~

26

Bottom

Co. S.

Fm

Bottom temperature

No. of thermometer

98237

Cor. +0.1

Corrected temperature

74.6°

Air

78

Surface

77

Drift

~~Trawl or dredge~~

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



Centre of Bu. & D., N 87° 30' E, 17,6'

OK  
X 100  
11

436

54

100

12

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

375

No. *Dr. 4115* Date *9 Dec '02**Sigsbee* Machine. / Recl. *Case*Turns *152* Cor. + *15* Depth *167*Shot or lead *36 Lbs*Bottom *fine co S. Sh. R.*Bottom temperature *56.5°*No. of thermometer *98237* Cor. *-0.2*Corrected temperature *56.3°* (*734° F*)Air *80°* Surface *78°* Drift *1.4'*Trawl or dredge *8' Blake*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

<i>7.42.20</i>	<i>7.52.10</i>	0	<i>8.01.00</i>	<i>9.00.10</i>
<i>43.20</i>	<i>51.10</i>	100	<i>8.05.00</i>	<i>8.55.00</i>
<i>44.50</i>	<i>50.00</i>	152	<i>8.10.00</i>	<i>8.50.00</i>
		200	<i>8.15.00</i>	<i>8.45.00</i>
		300	<i>8.20.00</i>	<i>8.40.00</i>
		400	<i>8.25.00</i>	<i>8.35.00</i>
		500	<i>8.30.00</i>	<i>8.30.00</i>
		600	<i>8.35.00</i>	<i>8.25.00</i>
		700	<i>8.40.00</i>	<i>8.20.00</i>
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Bird Is., East, 17.0'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2500. The strain was shot to bottom with the  
trawling. — Beam haul; net wrecked.

No. *1000* Date *8 Nov 1900*  
*Sigsbee* Machine. Reel. *1000*  
 Turns *266* Cor. + *27* Depth *293 fms.*  
 Shot or lead *36 Lbs.*

Bottom *co S. For. R.*

Bottom temperature *45.8°*

No. of thermometer *9823* Cor. *-0.2*

Corrected temperature *45.6°* (*N 40° E*)

Air *80°* Surface *78°* Drift *2.1'*

Trawl or dredge *8' Blake (beam trawl)*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7.03.45</i>	<i>7.05.05</i>	0	<i>9.12.50</i>	<i>35. -</i>
<i>7.04.10</i>	<i>7.05.20</i>	100	<i>16.15</i>	<i>31.4</i>
		200	<i>19.50</i>	<i>28.45</i>
		300	<i>23.15</i>	<i>26. -</i>
		400	<i>26.40</i>	<i>23. -</i>
		500	<i>31.40</i>	<i>20.05</i>
		600	<i>35.35</i>	<i>16.25</i>
		700	<i>38.30</i>	<i>12.30</i>
		800	<i>42.30</i>	<i>08.30</i>
		900	<i>45.45</i>	<i>10.04.55</i>
		1000	<i>9.57. -</i>	<i>9.59.40</i>
		1100	<i>14 min.</i>	
		1200		
		1300	<i>* Bottom.</i>	
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*also marks in al*  
*Dr. 14/65.*

Center of Bridge, S 86° E, 16.7

O.K.

July 10.

266

27

293

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

#### REMARKS:

Recurrent. Reverted to 100 ft. just before diving in. — Current slightly more from the shore when went down.

Under lights increased; hand set off from 850 fms.

No. *Hy. 4684* Date *8 Aug. 02.*  
*Sigsbee* Machine. / Reel. *Navy.*  
 Turns *909* Cor. + *79* Depth *988 fms.*  
 Shot or lead *36 lbs.*  
 Bottom *Co.*  
 Bottom temperature *36.7°*  
 No. of thermometer *98237.* Cor. *- 0*  
 Corrected temperature *36.7°*  
 Air *80°* Surface *78°* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.37. -</i>	<i>10.57.50</i>	0		
<i>37.45</i>	<i>56.45</i>	100		
<i>38.25</i>	<i>55.40</i>	200		
<i>39.15</i>	<i>54.30</i>	300		
<i>40.10</i>	<i>53.25</i>	400		
<i>41.15</i>	<i>52.20</i>	500		
<i>42.15</i>	<i>51.10</i>	600		
<i>43.30</i>	<i>50. -</i>	700		
<i>44.45</i>	<i>49.50</i>	800		
<i>10.44. -</i>	<i>10.44.50</i>	900		
		<i>909</i>		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Cut of Buad, 2740, 15

OK

108

11

4310

909

3401

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

126

79

20.5

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *SV 4167* Date *Aug 8, 1902**Sigsbee* Machine. Reel.Turns *16* Cor. + *2* Depth *18 fms*Shot or lead *36 lbs.*Bottom *C. S.*Bottom temperature *See next page*No. of thermometer *98237* Cor.

Corrected temperature

Air *50* Surface *75* Drift *1.4'*Trawl or dredge *8 Incub. hump dredge*

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*12-22-20**0**12-31-10**54.50**400**52.00**51.20**200**20**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400*



Center of Sound - N 78° 30' E, 11.6'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
4510	3500	200
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

378

*Handwritten notes*

No. *4168* Date *Aug 1 1902*  
*Tanner* Machine. — Reel.

Turns *19* Cor. + *1* Depth *20 fms*

Shot or lead *36 lbs.*

Bottom *60 S. For*

Bottom temperature *78.2°*

No. of thermometer *98257* Cor. + *0.3*

Corrected temperature *78.3°* (Next)

Air *81* Surface *78* Drift *1.3'*

Trawl or dredge *7' Smith's beam trawl*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>2-53-30</i>	<i>53.20</i>	0	<i>1-55-10</i>	<i>24.40</i>
		35	<i>23.55</i>	<i>25.00</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Sound 30, N 20° E. 13

616  
H 637

495 12  
19

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

DOT:

*Samner.*      *Machine.* — *Reel.*

~~Shot or lead~~ 26

Bottom 65.

Bottom temperature 78.3

No. of thermometer 1237 Cor. + 0.1

Corrected temperature  $7.6^{\circ}$   $\{5710^{\circ}\text{N}$

Air	Surface	Drift
101.5	101.5	1.5

~~Trawl or dredge~~ S. 10. 1/2 E. 2 mi. N. 1/2 E.

## SOUNDING WIRE.

## DREDGE ROPE

DOWN.

UP.

TURNS.

DOWN.

UP.

27.30

4255-601480

1-54-2.

200300400 $E(X)$ 600700800(206)000100200300400500600700300200000100200300

Center of Buoy, N 51° E, 14.3'

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
496	3500	12
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *H. 4685.* Date *8 Aug. 1902*  
*Tanner* Machine. — Reel.  
 Turns *21* Cor. + *1* Depth *22 fms*  
 Shot or lead *26 #*  
 Bottom *Co. S.*  
 Bottom temperature *78.6*  
 No. of thermometer *98237* Cor. *+0.1*  
 Corrected temperature *78.7*  
 Air *80* Surface *78* Drift  
Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1-57-50</i>		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Coast of S. D., N 79° 45' E, 1577

512  
11000

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *2170*Date *Aug 8 1902*Machine. *#1*Reel. *Strong*Turns *24*Cor. + *2*Depth *26 fms*Shot or lead *36 lbs.*Bottom *gy. S. br.*Bottom temperature *77.3*No. of thermometer *75287*Cor. *+0.1*Corrected temperature *77.4°*Air *80*Surface *75*Drift *N 66° W*  
*1.0'*~~Trawl or dredge~~ *7' Smith's beam trawl*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

*2- 37.10*  
*39.30**40.00**45**3- 47.15**50.10**12.20**3-10.40*

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*20 min*



Cont. of 2nd 3d, D-720 E, 16 3'

OK  
100  
22

4310

200

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

381.

No. *SV 4171* Date *Aug 8 1882**Tanner* Machine. — Reel.Turns *26* Cor. + *1* Depth *27 fms*~~Shot or lead~~ *26#*Bottom *co.*Bottom temperature *77.90*No. of thermometer *1227* Cor. *+0.1*Corrected temperature *78.0* (*N56.7*)Air *77* Surface *78* Drift *1.0*Trawl or dredge *8' Tangle Hook.*

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

*6-11-15*

0

*325.10**49.50**465**37.15**48.20**Machine used  
SV 4170*

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Center of Buoy, N 75° 15' E. 172'

OK  
H. 100'

496

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Station*  
 No. *4686* Date *May 5 1902*  
*Tanner* Machine. Reel.  
 Turns *30* Cor. + *1* Depth *31 fms*  
 Shot or lead *26 lbs.*  
 Bottom *bo.*  
 Bottom temperature *78.2°*  
 No. of thermometer *75237* Cor. *+0.1*  
 Corrected temperature *78.3°*  
 Air *79* Surface *78* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>53.10</i>	<i>54.30</i>	0		
<i>Marks and of 52 4171</i>		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Circle 5. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

62  
100

496  
30  
466

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507. 4172 D- 89.7  
 No. 4172 D- Date Aug. 9. '02.  
 Machine. 1 Reel.  
 Turns 690 Cor. + 61 Depth 751 fms  
 Shot or lead 36 #  
 Bottom G.S. G.S. S. M. R.  
 Bottom temperature 38  
 No. of thermometer 98257 Cor. -0  
 Corrected temperature 38.0 { N 68° 17'  
 Air 60 Surface 78 Drift { 1.1  
 Trawl or dredge 8' Blake, 35 lb. net

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4. 57.30	4. 53.20	0	5. 02.00	6. 20.00
39.30	51.15	100	05.15	50.45
40.25	51.10	200	08.50	32.20
41.20	50.10	300	13.15	28.20
42.15	49.05	400	17.20	24.45
43.10	47.50	500	20.45	24. -
44.05	46.35	600	25. -	21. -
45.00	45.45	690	29.35	6. 12.30
		800	33.25	57.10
		850*	36.15	50.00
		900	39.45	5.46.30
		965	5. 42.20	
		1000		
		1100		
		1200		
		1300		
		1400	* Bottom.	
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Cum gratia in No. 5, 211

5.00  
1.00  
1.00

4310 20.0  
690 14.0  
3620 6.1  
690  
75.1

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Small amount of water, then 400 ft. above in  
to 200 ft. had to come out to 100 ft. more.  
Mud in Register at 100 ft. more. Then in  
again under heavy stone the 100 ft. more in  
under stone and a small amount of water.  
Lost the 8' Blake frame, and the  
tailrope; not recovered.

No.

Date

S

Aug. 1882

Machine. / Reel

Vernor.

Turns 315 Cor. +

31

Depth

346 fms.

~~Shot or lead~~

36 Lbs.

Bottom

Gy. S. M.

Bottom temperature

43.5

No. of thermometer

98237

Cor.

-0.2

Corrected temperature

42.8°

Air

79°

Surface

78°

Drift

~~Trawl or dredge~~

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

6.41.20	6.46.50	0
42.15	47.30	100
43.30	46.30	200
6.44.35	6.45.25	300
		315
		400

Also marks end

41.30

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



Cable of ... N 73° 30' E, 32.0

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

No. *11689* Date *July 24, 1902*

Machine. Reel.

Turns *200* Cor. + *10* Depth *210*

Shot or lead *35 lb.*

Bottom *co. S.*

Bottom temperature *46.1*

No. of thermometer *98207* Cor. *-0.2*

Corrected temperature *45.9*

Air *78* Surface *77* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>1.29.50</i>	<i>1.26.00</i>	0		
<i>20.40</i>	<i>15.09</i>	100		
<i>21.30</i>	<i>23.41</i>	200		
<i>1.22.10</i>	<i>1.23.00</i>	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Bria Id, 3/55 W, 104'

ck  
11/11/12

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

251'

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

4173

Date

27.6  
9. 11. 07.

Machine.

Recl.

Turns

66

Cor. +

56

Depth

722 fms

Shot or lead

35 lb

Bottom

co. S. R.

Bottom temperature

No. of thermometer

Corrected temperature

38.0°

Cor. -

Air

79

Surface

57.7

Drift

Trawl or dredge

8 ft 5 ft dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

2.01.40

2.17.00

0

2.31.00

2.00.00

2.05.30

11.20.00

100

34.00

57.20

2.09.30

11.00.00

200

57.00

54.15

2.13.30

13.55

300

41.40

50.00

2.17.40

12.50

400

45.40

47.00

2.21.50

11.40

500

49.20

44.15

2.26.00

10.40

600

\* 53.10

36.45

2.30.00

11.00.00

700

55.00

34.00

2.34.00

10.00

800

57.00

32.00

2.38.00

9.00

900

59.00

30.00

2.42.00

8.00

1000

61.00

28.00

2.46.00

7.00

1100

63.00

26.00

2.50.00

6.00

1200

65.00

24.00

2.54.00

5.00

1300

67.00

22.00

2.58.00

4.00

1400

69.00

20.00

3.02.00

3.00

1500

71.00

18.00

3.06.00

2.00

1600

73.00

16.00

3.10.00

1.00

1700

75.00

14.00

3.14.00

0.00

1800

77.00

12.00

3.18.00

0.00

1900

79.00

10.00

3.22.00

0.00

2000

81.00

08.00

3.26.00

0.00

2100

83.00

06.00

3.30.00

0.00

2200

85.00

04.00

3.34.00

0.00

2300

87.00

02.00

3.38.00

0.00

2400

89.00

00.00

Center of Bird 30, N 84° 30' W, 12.41'

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

4.10  
665  
3647

22.5  
14.6  
10.9  
663  
722

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600	** Lost 8' Thermometer, and glass broke. Not absolutely mixed. Terminal reading 46.5.			
700				
800				
900				
1000				

REMARKS:

Went up in at 700 fathoms  
with 3000 ft. therm. net. Drift  
brought to 800 fathoms  
up. Quite shallow. No  
mud. No current  
seen. \*\*

No. *4687*. Date *9 Aug. 1902.*

Machine. / Reel. *Machine.*

Turns *42* Cor. + *4* Depth *46 fms.*

Shot or lead *36 Lbs.*

Bottom *co. S.*

Bottom temperature

No. of thermometer *78275* Cor. + *0.1*

Corrected temperature *75.2*

Air *78°* Surface *77°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4.04.10</i>	<i>4.05.10</i>	0		
		100		
<i>Also marks and</i>		200		
<i>at</i>		300		
<i>Det. 4.17.3.</i>		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Center of Bird 82, S 87° 27' N, 12.5'

OK  
3100

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. ~~11~~

Date

9 Aug. '02.

Machine. *Sigsbee*Reel. *Hand*

Turns 127 Cor. +

13

Depth

140 fms.

Shot or lead

36

Lb.

Bottom

Bottom temperature

No. of thermometer

*2510*

Cor.

Corrected temperature

Air

78°

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

10.16.45

10.19.40

17.30

18.30

18.10

0

100

127

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
127	3500	
13	3600	
146	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

4690

Date

9 August 02

Machine. - Reel.

Turns - Cor. + - Depth 14

Shot or lead Hand

Bottom No. Specimen - C.S.R.

Bottom temperature

No. of thermometer } none. Cor.

Corrected temperature

Air 78° Surface 77° Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

10.35. -

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

4690 - Aug 10. 1902

7<sup>10</sup> P.M.

Hand

10 fms

C.S.R.

air 77° Aug 77°

West Coast of Niihau Is.  
Kona Point, N 21° 30' E, 3.2'

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

July 11 1922

Station 4692

No. 4692 Date July 11, 1922

Machine. Reel.

Turns 40 Cor. + 4 Depth 44 fms

Shot or lead 36

Bottom Cor. mud, cr. s. for,

Bottom temperature 77.1

No. of thermometer 75237 Cor. +0.1

Corrected temperature 77.1°

Air 78 Surface 78 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

19.30 22.00  
20 = 21.30

0  
100  
200  
300  
400  
500  
600  
700  
800  
900  
1000  
1100  
1200  
1300  
1400  
1500  
1600  
1700  
1800  
1900  
2000  
2100  
2200  
2300  
2400

Kona Point, S 58° E, 8/10'

5h 1310	205	2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Hutchinson*  
not

*Cat Log. 44.*

No. *Hy 4693* Date *Aug 11 1902*  
*Sigsbee* Machine. # *1* Reel. *Navy.*  
Turns *236* Cor. + *24* Depth *260 fms*  
~~Shot or lead~~ *36 lbs*  
Bottom *gy S Fr*  
Bottom temperature *44.90*  
No. of thermometer *98237* Cor. *-0.2*  
Corrected temperature *44.70*  
Air *78* Surface *78* Drift  
~~Trawl or dredge~~

*Obs*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8.47.40</i>	<i>53.05</i>	0		
<i>48.30</i>	<i>52.00</i>	100		
<i>49.25</i>	<i>51.05</i>	200		
<i>49.40</i>	<i>50.40</i>	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Kona Point. S 28° 30' E, 2 7/10'

OK  
HLS  
5

236  
24  
260

4310 205

---

---

$$\begin{array}{r} 8-37-75 \\ 15-50 \\ \hline 22-25 \end{array}$$



~~78339~~

9.54